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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,978	06/15/2006	Morten Bryhn		8212
22852 7590 04/07/2010 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			EXAMINER	
LLP			BETTON, TIMOTHY E	
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ART UNIT	PAPER NUMBER
			1627	
			MAIL DATE	DELIVERY MODE
			04/07/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, PROM THE MAILING DATE OF THIS COMMUNICATION.  - Examinate in many be available under the provisions of 57 CFH 1-180, in no event, however, may a reply be timely filled.  - If NO period for right is specified above, the maximum abstratory printed will apply and will expres SIX (8) MONTHS from the mailing date of this communication.  - Failus to right within the sort or extended period for inject will apply and will expres SIX (8) MONTHS from the mailing date of this communication.  - Failus to right within the sort contended period for inject will apply and will express SIX (8) MONTHS from the mailing date of this communication.  - Failus to right within the sort of the maintenant abstratory interest will express of the communication, seven if stinely filled, may reduce any source plant interest mailing case.  - Status  - Status  - 1) Responsive to communication (s) filled on 22 December 2010.  - 2a) This action is FINAL.  - 2b) This action is non-final.  - 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - 4) Claim(s) 13.15-22.37.39-46.49 and 51-61 is/are pending in the application.  - 4a) Of the above claim(s) is/are allowed.  - 5) Claim(s) is/are allowed.  - 6) Claim(s) is/are allowed.  - 7) Claim(s) is/are allowed.  - 8) Claim(s) 13.15-22.37.39-46.49 and 51-61 is/are rejected.  - 7) Claim(s) is/are allowed.  - 8) Claim(s) is/are allowed.  - 8) Claim(s) is/are allowed.  - 9) The specification is objected to by the Examiner.  - Application Papers  - 9) The specification is objected to by the Examiner.  - Application papers  - 9) The specification is objected to by the Examiner.  - Application papers  - 9) The cath or declaration is objected to by the Examiner.  - Application from the International Bureau (PCT Rule 17.2a).  -		Application No.	Applicant(s)					
TMOTHY E. BETTON   1627   16	Office Action Comments	10/582,978	BRYHN ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address = Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of term may be available under the processor of 3 CFR 11/30(). Into ownth bowers, may analybe be triedy filled.  3 NO period for reply is appelled above, the maximum statutory parted will apply auth 4 apply and the processor (24 to 17/30). Into ownth bowers, may a reply be triedy filled.  3 NO period for reply is appelled above, the maximum statutory parted will apply and the special colored by the filled of this communication.  4 Pallus for special special above, the maximum statutory parted will apply and the special colored by the filled parted will be communication, even if timely filed, may reduce any seated pattern the special colored by the communication.  5 Pallus for special special parted by the state of this communication, even if timely filed, may reduce any seated pattern the processor.  5 Status  1   X Responsive to communication(s) filled on 22 December 2010.  2   Z   Z December 2010.  2   Z December 2010.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   X Claim(s)   3.15-22.37.39-46.49 and 51-61 is/are pending in the application.  4a) Of the above claim(s)   is/are allowed.  5   Claim(s)   3.15-23.37.39-46.49 and 51-61 is/are rejected.  7   Claim(s)   is/are allowed.  6   Z Claim(s)   3.15-23.37.39-46.49 and 51-61 is/are rejected.  7   Claim(s)   is/are abjected to by the Examiner.  Application Papers  9   The specification is objected to by the Examiner.  10   The drawing(s) filed on   is/are: a)   accepted or b  objected to by the Examiner.  Application Papers  9   The drawing(s) filed on   is/are: a)   accepted or b  objected to b	Oπice Action Summary	Examiner	Art Unit					
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#### **DETAILED ACTION**

## Status of the Claims

Claims 13, 15-22, 37, 39-46, 49, 51-61. Claims 53-61 have been newly added.

# Acknowledgement of Remarks drawn to Amendments

Applicants' amendments to the claims cited in the following are hereby acknowledged:

With entry of the amendments herein, claims 13, 15-22, 37, 39-46, 49, and 51 - 61 are pending in this application; claims 1-12, 23-36, 47, and 48 were previously cancelled.

Independent claims 13, 37, and 49 are amended herein to incorporate the phrase "wherein the weight ratio of EPA:DHA in the fatty acid composition is 1 : X, where X is equal or greater than 1." Support for those amendments can be found throughout the specification and in now cancelled claims 14, 38, and 50. Applicants added new claims 53-61. Support for those claims can be found at, *e.g.*, [0066] and [0071] - [0082] of the published application. Accordingly, no new matter is added by the amendments herein.

#### Response to Arguments

Applicants' Remarks filed on 22 December 2009 have been acknowledged and duly made of record.

Essentially, applicants' aver the Offices further decision to maintain the current Claim rejection under 35 USC SECTION 103(a) is being insufficient via Corkey et al. to establish that the standard administration of EPA: DHA would achieve the same effects as purported in the claimed invention. The current invention considered as a whole would also reasonably consider the optimization of the characterization of the ratios in order to arrive at a desired therapeutic parameter via due routine experimentation.

Applicants' assert on page 9 in the second paragraph that in the way of Breivik resolving the deficiency in Corkey, Corkey instead allegedly teaches in a different direction.

Essentially, applicants' argue that Corkey teaches the combination including MCFA and not EPA/DHA in one single concomitant dual therapy dosage form in combination and/or individually. Applicants are basing unexpected results on the alleged claim that EPA/DHA, independent of any other added component is able to achieve results that can control obesity.

By virtue of Breivik et al. clearly teaching the treatment of the prophylaxis of multiple risk factors for cardiovascular disease, the one of skill would reasonably recognize *inter alia* obesity ranks as one of the primary risk factors for cardiovascular disease.

Further, applicants' assert that 'DHA rich 'does not reasonably suggest a 1:1 ratio.

Applicants' arguments are considered but are not found persuasive because the one of skill would readily recognize that DHA *richness* connotes a concentration in the broadest reasonable interpretation of a 1:1 ratio said to contain DHA.

Finally, applicants aver Breivik on page 11 as disclosing a higher value of EPA and not DHA. DHA is disclosed as having a higher value in comparison to EPA according to the claimed invention.

Applicants' arguments are considered but are not found persuasive because it is well-established in the art that optimization of ratio strengths of said components is well within the purview of the one of ordinary skill.

Thus, newly added claims 53-61 are reasonably made obvious by the rejections already made of record.

Rejections not reiterated from previous Office Actions are hereby withdrawn. The following rejections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13, 15-22, 37, 39-46, and 49, 51-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Breivik et al. (USPN 5,502,077) in view of Corkey et al.

Breivik et al. teach a fatty acid composition comprising at least 80% by weight of omega-3-fatty acids, salts or derivatives thereof, wherein (all-Z)-5,8,11,14,17-eicosapentaenoic acid (EPA) and (all-Z)-4,7,10,13,16,19-docosahexaenoic acid comprises at least 75% by weight of the total fatty acids. The compositions can be used for the *treatment* [...] of multiple risk factors for cardiovascular diseases (abstract only).

Breivik et al. teach that present invention relates to a fatty acid composition comprising at least 80% by weight of omega-3 polyunsaturated fatty acids, wherein at least 75% by weight of the total fatty acids comprise omega-3 (all-Z)-5,8,11,14,17-eicosapentaenoic acid (EPA)C 20:5 and (all-Z)-4,7,10,13,16,19-docosahexaenoic acid (DHA) C 22:6 9column 1, lines 5-10).

Breivik et al. teach the same and exact preferred ratio limitation in the instant claims. The upgrading of the EPA fraction to obtain a weight ratio of EPA: DHA of from 1:1 to 2:1, especially 3:2 or the upgrading of the DHA fraction to obtain an EPA: DHA weight ratio of from 1:1 to 1:2 may be achieved in the molecular distillation stage. The method also provides the possibility of using supercritical fluid extraction and/or chromatography in the second stage with CO.sub.2 eventually containing a more polar modifier, such as ethanol, in order to concentrate the EPA and/or DHA fraction (column 3, lines 61-67; column 4, lines 1 and 2).

Breivik et al. teach fish oil which is of animal origin (column 1, line 38). This limitation of oil also anticipates the limitation in the claims drawn to a liquid form (claim 51).

Breivik further renders obvious the claimed invention by teaching that this preferred ratio of EPA: DHA has an advantageous effect on risk factors for cardiovascular diseases (column 2, lines 50-67).

Breivik et al. teaches an esterified formulation comprising EPA: DHA (column 3, lines 2-39).

Breivik et al. does not go into specific detail as to risks of cardiovascular disease in view of the specific treatment thereof.

However, Corkey et al. essentially teach dietary products for infant child and adult nutrition which possess adequate levels and ratios of medium chain fatty acids and .omega.-polyunsaturated fatty acids. Consumption of these dietary products can contribute to the prevention of obesity in developing individuals and can contribute to a reduction in body fat mass in individuals who are trying to loose weight or reduce body fat mass (e.g., obese individuals). A first preferred product is a dairy supplement or formulated dairy product for consumption by infants or children to prevent development of obesity. A second preferred product is a dietary supplement for persons combating unwanted weight gain or obesity. Also featured are methods of formulating these dietary products (abstract only).

Corkey et al. teach a combination of MCFA and DHA Reduces Lipogenesis, Lipid Storage, and Secretion from Liver Cells (Please see example 12, paragraphs 121 and 122).

Corkey et al. teach dietary supplements and products aimed at preventing obesity, reducing fat mass, and/or reducing serum TGs (in particular, serum TGs associated with traditional MCT diets) [0006].

Corkey et al. teach [...].Because the .omega.-3 long chain fatty acids (EPA:DHA) have been shown to efficiently inhibit fatty acid synthesis, it is proposed that mixing MCFA with a small portion of EPA and DHA will synergize the positive effects of both types of fatty acids in reducing fat storage in adipose tissue and fat product [0121].

Corkey et al. teach a dietary regimen to be incorporated concomitantly with the said weight-reduction formulation. The present invention features dietary supplements and products aimed at preventing obesity, reducing fat mass, and/or reducing serum TGs (in particular, serum TGs associated with traditional MCT diets) [0006]; [0034].

Corkey et al. teach a triglyceride form of the formulation. A glyceride is an ester of glycerol (1, 2, 3-propanetriol) with acyl radicals of fatty acids and is also known as an acylglycerol. If only one position of the glycerol molecule is esterified with a fatty acid, a "monoglyceride" is produced; if two positions are esterified, a "diglyceride" is produced; and if all three positions of the glycerol are esterified with fatty acid a "triglyceride" or "triacylglycerol" is produced. A glyceride is called "simple" if all esterified positions contain the same fatty acid; or "mixed" if different fatty acids are involved. The carbons of the glycerol backbone are designated sn-1, sn-2 and sn-3, with sn-2 being in the middle and sn-1 and sn-3 being the ends of the glycerol [0033].

Thus, it would be *prima facie* obvious to one of ordinary skill in the art to at once recognize a reasonable expectation of success via the incorporating together the methods and

teachings of Breivik et al and Corkey et al. Determining the scope and contents of the prior art in view of the immediate references *supra* has been reasonably assessed.

Consummately, the Breivik et al. reference teaches the current invention. The specificities drawn to a particular target population suffering from specific risks and disorders associated with cardiovascular diseases in need of such formulations are adequately supported and taught by Corkey et al.

Accordingly, the level of ordinary skill in the pertinent art suggests well-known and well-established protocols which are sufficiently described, defined, and explained in the references above. As a result, the inventive objective of current invention is made obvious. In consideration of the objective evidence present in the current application, it would have been *prima facie* obvious to combine the references together in obviousness over the claimed invention.

In view of the differences, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to employ the fatty acid composition for treating persons with obesity because it is well-established in the art that the administration of such supplements aid in the treatment of weight control. Based on the secondary reference, Corkey et al. teach ratios of medium chain fatty acids and .omega.-polyunsaturated fatty acids. Further, the said reference teaches consumption of these dietary products [which] can contribute to the prevention of obesity in developing individuals and can contribute to a reduction in body fat mass in individuals who are trying to loose weight or reduce body fat mass (e.g., obese individuals). Accordingly, the reference of Corkey et al. reads on dietary formulations of the said fatty acids.

Similarly, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to make a dietary composition either in the form of a snack or emulsion. Accordingly, the reference of Corkey et al. reads on dietary formulations of which the said fatty acids are comprised.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY E. BETTON whose telephone number is (571)272-9922. The examiner can normally be reached on Monday-Friday 8:30a - 5:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**TEB** 

/SREENI PADMANABHAN/ Supervisory Patent Examiner, Art Unit 1627